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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 59-090353

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1)Int.Cl.

H01M 2/26  
H01M 4/72

1)Application number : 57-199978

(71)Applicant : JAPAN STORAGE BATTERY CO LTD

2)Date of filing : 15.11.1982

(72)Inventor : KAWAHARA TSUTOMU

## 4) BATTERY

### 7)Abstract:

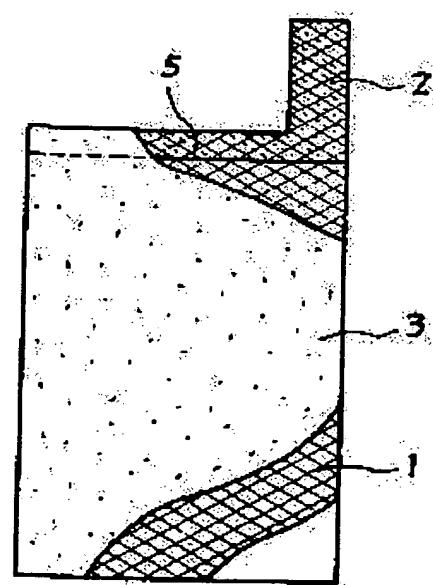
PURPOSE: To increase mechanical strength and electrical performance

by filling wax in a lead of a plate or a lead and the upper part of a grid.

CONSTITUTION: Wax 5 is filled in a lead 2 and the upper part of a grid 1 comprising an expanded metal net or a porous plate, and the wax 5 and the lead 2 are bonded together. The wax is selected depending on

material of the lead 2 and the grid 1, and the kind of active material 3 and electrolyte. By filling only the lead, an open part, or net part in the

upper part of the grid with the wax, without special thickness increase of wax filled part, decrease of electrical resistance and increase of mechanical strength achieved.



## GAL STATUS

Date of request for examination]

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Title: **JP59090353A2: BATTERY**

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Country: **JP Japan**  
Kind: **A**

Inventor(s): **KAWAHARA TSUTOMU**

Applicant/Assignee: **JAPAN STORAGE BATTERY CO LTD**  
[Inquire Regarding Licensing](#)

Issued/Filed Dates: **May 24, 1984 / Nov. 15, 1982**

Application Number: **JP1982000199978**

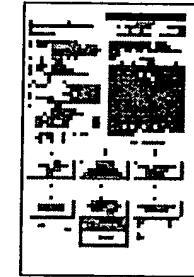
IPC Class: **H01M 2/26; H01M 4/72;**

Priority Number(s): **Nov. 15, 1982 [JP1982000199978](#)**

Abstract: **Purpose:** To increase mechanical strength and electrical performance by filling wax in a lead of a plate or a lead and the upper part of a grid.

**Constitution:** Wax 5 is filled in a lead 2 and the upper part of a grid 1 comprising an expanded metal net or a porous plate, and the wax 5 and the lead 2 are bonded together. The wax is selected depending on material of the lead 2 and the grid 1, and the kind of active material 3 and electrolyte. By filling only the lead, an open part, or net part in the upper part of the grid with the wax, without special thickness increase of wax filled part, decrease of electrical resistance and increase of mechanical strength achieved.

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